

Date: Tue, 8 Jun 93 21:51:41 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #698
To: Info-Hams

Info-Hams Digest Tue, 8 Jun 93 Volume 93 : Issue 698

Today's Topics:

Amateur Radio Newsline (06/07/93)
Antenna tuner freq range??
Field Day Power
FT-101ZD wanted for Movies
ham radios in movies (2 msgs)
Kenwood vs PK232
MOTOROLA FLIP PHONE PT-550
kets arrived! Six weeks and two d
S Callsign assignments? I miss th
ING: Potential Geomagnetic Storm W

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 9 Jun 1993 02:43:34 GMT
From: swrinde!gatech!ukma!ncc.uky.edu!acourt@network.UCSD.EDU
Subject: Amateur Radio Newsline (06/07/93)
To: info-hams@ucsd.edu

NEWSLINE RADIO - CBBS EDITION #75 - POSTED 06/07/93

* * * ***** * * ***** ***** ***** * * ***** *
* *
* * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * *

The following is late news about Amateur Radio for Radio Amateurs as prepared from NEWSLINE RADIO scripts by the staff of the AMATEUR RADIO NEWSLINE, INC. -- formerly the WESTLINK RADIO NETWORK. The electronic version of newsline is posted on this CBBS twice monthly. For current information updates, please call (213) 462-0008, (805) 296-2407, (407) 259-4479, (708) 289-0423, (513) 275-9991, (718) 353-2801, (407) 965-1234 or (206) 368-3969. To provide stories and information please call (805) 296-7180. This line answers automatically and will accept up to 30 minutes of material.

Check with your local amateur radio club to see if NEWSLINE can be heard weekly on the air in your area.

Articles may be reproduced if printed in their entirety and credit is given to AMATEUR RADIO NEWSLINE as being the source.

For further information about the AMATEUR RADIO NEWSLINE, please write to us with an SASE at P.O. Box 463, Pasadena, CA 91102.

Thank You
NEWSLINE

Some of the hams of NEWSLINE RADIO...

WA6ITF WB6MQV WB6FDF K6DUE W6RCL N6AHU N6AWE N6TCQ K6PGX N6PNY
KU8R N8DTN W9JUV KC9RP K9XI KB5KCH KC5UD KC0HF G8AUU DJ0QN and
many others in the United States and around the globe!!!

[825]

FLORIDA COURT SIDES WITH PRB-1

A pair of Florida hams have won a partial victory in their

fight to keep their antennas up and to stay on the air. David and Sherri Bower (WA4NST and N4LXF of Vero Beach) say that an appeals court has found that local ordinances limiting tower heights to seventy feet are illegal. According to Judge John Kenney, the local ordinance is preempted by PRB-1 and also by Section 125.0185 of Florida state law. The latter incorporates PRB-1 into state law, making it illegal for municipalities to ban ham radio antenna installations on those grounds.

But the Bower's still face an even more important court battle to overturn a lower court ruling that holds amateur radio to be "a noxious and offensive nuisance to the neighborhood." This finding is based purely on deed restrictions which may be much harder to appeal, but the Bower's say that they will continue their fight to regain the right to operate their station from their home.

CONGRESS SUPPORTS HAMS

Another joint resolution of Congress to recognize the achievements of radio amateurs, and to establish support for radio amateurs as national policy, has been introduced as House Joint Resolution 199. It is identical to Senate Joint Resolution 90, introduced in the Senate in early May. House sponsors of the measure are Representatives Mike Kreidler of Washington and Jim Cooper of Tennessee. They have been joined by 15 additional co-sponsors.

SAREX - STS-57 DELAYED

The launch of Space shuttle flight STS-57 has been re-scheduled for the week of June 14 because of a problem with the pump on the shuttle's main engine. The pilot is Brian Duffy, N5WQW. Flying with him is Mission Specialist Janice Voss. Voss is still awaiting her call sign but the delay means that it might be delivered before liftoff. If it is, then both ham astronauts will be on the air working the SAREX Shuttle Amateur Radio Experiment during the flight.

Also, the SAREX Working Group says that it has received a number of inquiries about the small number of general QSO's made during recent SAREX missions. What most hams are not aware of is that SAREX flies as a secondary payload. That, as well as the need to conserve power for extended mission days places unavoidable limits on ham radio activities. It is also the reason that automatic packet operation is used when the crew is busy with primary payloads. Simply said, the hams cannot operate other SAREX modes during primary mission activities.

The SAREX Working Group says that it may try to add a very limited schedule for general QSO's. This, in addition to any random times the crew can operate. But the earliest this could happen is on STS-58, this fall.

FCC GIVES GREEN LIGHT TO SPECIAL CALLSIGNS

By now, many of you have heard the news that the FCC has amended the amateur rules governing special callsigns. This, to provide for volunteer organizations to administer a system designed to provide special call signs to club and military recreation stations. For those interested in taking on the job, here is how its to be done.

The FCC says that to become an administrator, an organization must exist for the purpose of furthering the amateur service. It must be able to document that its' membership includes at least one percent of the amateur operators licensed by the FCC, and it must be capable of serving as an administrator in all places where the amateur service is regulated by the FCC.

Organizations selected for the new system will be known as Club and Military Recreation Station Call Sign Administrators. Once designated, an administrator must enter into a written agreement with the FCC to accept and process all properly completed license application forms from the trustees of club stations and from the custodians of military recreation stations. This, without regard to race, sex, religion, national origin or membership in any amateur service organization. The organization cannot charge a fee for providing the service. Nor can it accept any form of reimbursement for services provided as an administrator.

Dates for accepting applications from potential administrators have not yet been announced. Public notices will be issued listing the administrators once they are chosen. The action was authorized by the Telecommunications Authorization Act of 1992. At this time, it appears as if the American Radio Relay League and the National Amateur Radio Association are the only two existing organizations that qualify under the new rule as written. It's expected that both will be applying for the administrators post.

PAUL GRAUER, W0FIR S.K.

Word has reached us of the passing of ARRL Midwest Division Director Paul Grauer W0FIR. Paul was 81 and had been in failing health for some time.

W0FIR had served as Midwest director for nearly 20 years. His

first term in office began on January 1st, 1974. Immediately prior to that he had served a term as the division's vice director.

Paul made his last public appearance was on Saturday May the 22nd at the PHD Amateur Radio Club convention in Kansas City. Though obviously in some discomfort, Paul spent the morning at the ARRL booth assisting in any way he could -- the same way he had done at so many conventions and hamfests over the years.

On June 3rd, Paul tendered his resignation from the ARRL board and as president and director of the ARRL Foundation for health reasons. He died at his home in Wilson, Kansas just a few minutes past noon on Saturday, June the 5th -- exactly two weeks to the day after his appearance in Kansas City. Funeral services are scheduled for Tuesday, June 8th at the Wilson Methodist Church. Paul Grauer W0FIR is survived by his wife Helen N0BCI, and three sons.

Vice Director Bill McGrannahan, K00RB, has assumed the office of ARRL Midwest director and will serve out the remainder of Paul Grauer's term.

TULSA TORNADO KILLS VE

A tornado that swept through Tulsa, Oklahoma on April 24th claimed the lives of seven people including a well known ham radio instructor and volunteer examiner. Bill Moore, KF5DL was assisting two other hams in a radio repair shop when the storm hit. He was rushed by ambulance to a nearby hospital where he was pronounced dead. The two others in the store, Joe Brassfield KB5CWP and his wife Clara N5UBA were also rushed to the hospital and are reported to be recovering from their injuries.

Moore, who retired from Sears Roebuck in 1985 was a VE best known for his work as founder of the Tulsa Amateur Radio School where he trained many hams in the proper procedures for emergency and public service communications. He was a member of the Tulsa Amateur Radio Club, the American Airlines Amateur Radio Club and the Tulsa Repeater Association.

KF5DL is survived by his wife Dorothy, a son and a daughter.

CABLE FINDINGS

The FCC has announced the results of a recent project to enforce its cable television leakage standards and what it found in a March sweep was a mixed bag of news for the cable industry.

According to the Commission, the investigation included the monitoring of 321 cable TV systems, their visiting eight systems to discuss operator measurements, and the closing down of one

system for violating the FCC's Cumulative Leakage Index limit. The system which was taken out of service was found to have a small number of significant leaks, according to the FCC.

The FCC says that it has sent letters to 1,550 cable TV operators, issued 112 complimentary letters to clean systems, but also dinged 73 cable system operators violation letters. The commission adds that it plans another monitoring project later this year to gauge the effect of its enforcement and education efforts. During the sweep, the Commission's Enforcement Division focused on cable systems which it felt could pose a danger to public service radio communications, such as aeronautical, police, fire and other such services.

SA BALLOON LAUNCH

Some good news on the ham radio scientific front from South America. Word that on Saturday May 22nd, a balloon carrying amateur radio equipment was successfully launched from La Plata University, near Buenos Aires. The payload was a cross band repeater with a 10 meter input and a 2 meter output. Forty stations in Argentina and Uruguay were able to hold QSO's through it. Strong signals were heard for nearly 500 Kilometers from the balloon, and stations as far from one another as 600 Kilometers made contact.

LUSAT BACK ON

Also from Argentina come word that the CW beacon on the Lusat ham satellite is on again. In fact, you can hear it in 437.125 MHZ quite easily with almost any 70 cm meter rig.

The other Phase Shift Keyed transmitter is on 437.150 MHZ is in bulletin board operation. If you want to receive the QSL for L 0 19, just send your telemetry report to AMSAT Argentina, P.O.Box 9, SUC 1, 1401 Capital Federal, Argentina.

RUSSIAN SPEAKING HAM CLUB FORMED

A group of New York City hams who are refugees from the former USSR republics recently started a Russian speaking amateur radio organization called Radio Club International. The club is made up of hams who now permanently reside in the West, but who share a common language and cultural background. They created the new club as a way of keeping in touch with each other, and others, who share interest in the Russian culture, speak the language and follow Amateur Radio happenings in their countries. They say

that with the general decline of Amateur Radio activity in their former home due to the hardships and political instability, this is a way of staying together, and staying in touch with friends from their past.

The group says that it has no political, religious or sectarian goals. Rather, it is looking to establish ties with people like themselves, in the United States and other countries to whom the Russian language is their mother tongue or a second language.

If you reside outside of the former USSR, speak or learning to speak Russian, have a callsign in your current country of residence, and share similar interests, you are welcome to join. Simply send an SASE to the RSRCI in care of Ed Kritsky, NT2X, P.O.Box 715, Brooklyn, New York, 11230.

LIECHTENSTEIN

In DX, the 17th Annual DX-Pediton to Liechtenstein by the Wiesbaden Amateur Radio Club as HB0/DA1WA is now taking place. HF modes include CW, SSB, RTTY, Amtor and Pactor. HF bands include 160 meters through 10 meters, VHF on 6 and 2 meters plus some of the ham satellites. QSL direct with SASE or IRCs to KN6G at Box 4205, APO AE, 09192.

* * * Newsline Copyright 1993 all rights are reserved. * * *

--

Allan Courtney KD4DBN Internet: acourt@ncc.uky.edu
Lexington, Kentucky AMPRNet: 44.106.2.120

Date: 8 Jun 93 13:15:41 EST

From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!caen!malgudi.oar.net!
uoft02.utoledo.edu!cscon0151@network.UCSD.EDU

Subject: Antenna tuner freq range??

To: info-hams@ucsd.edu

I'm currently transmitting on CB base station using a ChannelMaster 5094a scanner antenna, with an antenna tuner.

I'd like to know the freq range the antenna tuner can be utilized at, as I will soon be receiving my Amateur call letters.

It's an old tuner...

E.F. Johnson "CB MATCHBOX" catalog # 250-49

Thanks for any help...

Brad Steinman
cscon0151@uoft02.utoledo.edu

Date: 9 Jun 1993 02:32:17 GMT

From: w1gsl@athena.mit.edu
Subject: Field Day Power
To: info-hams@ucsd.edu

In article <1993Jun8.150551.21417@ke4zv.uucp> gary@ke4zv.UUCP (Gary Coffman) writes:

>In article <1993Jun7.204302.19897@sequent.com> dale@sequent.com (Dale Mosby) writes:

>>With Field Day getting close, and planning on running a generator
>>this year, I've gotten to wondering about the power and safety of
>>my equipment. We have a "typical" generator, 4 to 5 KW, and fine
>>to run small applicances and such. We will plug a SB200 amp directly
>>in to the generator, and use an Astron supply to create the 12V for
>>HF rig. Does the Astron act as a clean-up for the 12V so if something
>>goes wrong on the generator end it will protect my radio? Is this
>>something I should be worrying about? I'm not sure if there is any
>>potential for a problem here, and I'm sure that Jim would be happy
>>to replace the radio if anything went wrong with the generator (right
>>Jim?), but if there is any precaution against problems please let me know.
>

Well IMHO you are doing it all wrong ! Dump the amp you really don't need it and will get more points runing lower power. A good operator, 100W and wire dipoles

/beams should have no trouble working everyting he can hear on Field Day.

Since you have a 12V radio run it from a car battery, The battery will protect the radio reasonably well and will let you continue operating while some one else refuels the generator.

If you must, use the generator-astron to charge it! Much more fun and more points to solar charge it.

>Drive a ground rod next to the generator and connect the generator frame to it. If the generator isn't equipped with GFI, then use plug in GFIs on the generator output. Don't even think of using

Good idea (GFI) although I have to admit we never have had GFI on any of our small generators and have not had any problems in over 20 years of FD...

>

>Alternatively, you can isolate the generator with a ferroresonant
>transformer such as one of the common Sola models. This will deal
>with voltage regulation problems. And the transformer won't work
>unless the frequency is close to right.

Actuall a Sola transformer is quite useless in portable generator FD type operations. Its reguilation is very dependent on the 60Hz being right on (the resonance in freroresonant). Any varation in freq will actually make the voltage regulation worse. In all the small generators I have ever run the first thing to vary under load is the frequency. :-(Make sure the generator's voltage regulator is working well and that you understand it so you can fix it at 3AM on Sunday :-)

If you run with the battery +/- 50% AC varartions would hardly be noticeable. something would be seriously wrong with the generator but it wouldn't bother Jim's radio :-)

>Gary

73 Steve F
W1GSL

Steve Finberg W1GSL w1gsl@athena.mit.edu
PO Box 82 MIT Br Cambridge MA 02139 617 258 3754

Date: 8 Jun 93 12:39:25 GMT
From: news-mail-gateway@ucsd.edu
Subject: FT-101ZD wanted for Movies
To: info-hams@ucsd.edu

Info-Hams Mailing List and Newsgroup said:
: have a transveter hidden :). No way, I don't think 101ZD has FM though.

Yes way! Yaesu part# C0022180 "FM Unit (option) P.C.B. with components" is on page 5-41 of the FT101ZD service manual parts list. Though you'd want the external VFO to work the offset for repeater operations on 10mFM (though it might be possible using clarifier offset).

--

Date: 9 Jun 1993 01:32:10 GMT
From: sun-barr!koriel!male.EBay.Sun.COM!jethro.Corp.Sun.COM!caliban!
tjonz@decwrl.dec.com
Subject: ham radios in movies
To: info-hams@ucsd.edu

turner@safety.ics.uci.edu (Clark Savage Turner) writes:

> I have seen ham radio equipment in a number of movies. I wonder if
> others keep track:

The bad guys in "Die Hard" kept in touch with Kenwood HTs. Based on the other items that have been posted to this thread, it appears that Kenwood wins the prize for working the Hollywood plugola system to best advantage....

Todd, KB6JXT

Date: Tue, 8 Jun 1993 12:27:48 GMT
From: usc!cs.utexas.edu!utnut!torn!csd.unb.ca!UNBSJ.CA!robert@network.UCSD.EDU
Subject: ham radios in movies
To: info-hams@ucsd.edu

In the movies "Die Hard" and "Die Hard 2", they use HTs. I can't remember for sure, it has been about a year since I've seen the movies...However this is what I remember. In the first movie they used a Kenwood (don't know the model) and with it they used it to talk on CB channel 9 and to the police (Quite an amazing rig!). In the second movie the HTs had some sort of scrambling...frequency inversion maybe?...

Maybe it is time to watch the movies again and make note of what was used.

Robert

Date: 8 Jun 1993 20:28:24 GMT

From: sun-barr!west.West.Sun.COM!l1-a!flloyd@decwrl.dec.com
Subject: Kenwood vs PK232
To: info-hams@ucsd.edu

In article <1uvfof\$k25@fugu.mc.com> levine@mc.com (Bob Levine) writes:
>
>When the TS850 came out, a new PTT was added to ACC2 - pin 13. This caused
>PTT but kept the mic off. AEA's cable however uses pin 9 for compatibility.
>Check to see if your 680's PTT pin is maybe causing the problem.
>
>73 Bob KD1GG
>

You'll also notice that the FSK input to the TS-850 does not appear on the ACC2 connector. Instead, you must fashion a separate cable with an RCA type plug on it to feed FSK into the radio. I don't like multiple cables so I modified my TS-850 over the weekend to include FSK on the ACC2 jack and it works great. Now I do all of my radio interfacing (except for CW keying which I don't care about) through the ACC2 Plug.

All you have to do is take a 10" piece of wire and jumper it from the rear of the FSK jack over to Pin 1 (which is unused) on the ACC2 jack. There are still a couple of unused pins on the ACC2 connector so if you wanted you could also jumper the CW key line to it as well.

-fred

[Fred Lloyd, AA7BQ
[Sun Microsystems,
[Phoenix, AZ

Fred.Lloyd@West.Sun.COM]
Systems Engineer]
(602) 224-3517]

Date: 8 Jun 93 14:55:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: MOTOROLA FLIP PHONE PT-550
To: info-hams@ucsd.edu

ANYONE WITH INFO ON HOW TO PUT THESE INTO MAINTENANCE MODES TO ALLOW MANUAL TUNING, ETC. I HIT SOME KEYS ACCIDENTALLY AND GOT IT TO DISPLAY "SCAN" WHICH IS NOT A NORMAL FUNCTION, BUT CAN DUPLICATE IT. CAN ANYONE SUGGEST SOURCE OF MANUAL FOR IT?

Date: 8 Jun 93 18:34:20 GMT
From: sdd.hp.com!nobody@hplabs.hpl.hp.com

Subject: Tickets arrived! Six weeks and two days!
To: info-hams@ucsd.edu

My wife Carolyn and I took our Technician tests April 24th and our tickets arrived yesterday, six weeks and two days later!

We got consecutive calls. She is KD6WQG, I am KD6WQH. I'm very excited!

Thanks in no small part to this group, I feel pretty comfortable operating so far.

I have learned first hand, though, that the stock rubber duck on my HT leaves more than a little to be desired. It receives OK, but I have a some trouble getting into the repeaters. My mag mount seems to be much better.

Anyway, I'm really happy to be into this new hobby!

--
Craig Bosworth, KD6WQH
Hewlett-Packard, San Diego Division
craigb@sdd.hp.com 619 592-8609

Date: 9 Jun 93 02:47:09 GMT
From: furuta@MIMSY.CS.UMD.EDU
Subject: US Callsign assignments? I miss them!
To: info-hams@ucsd.edu

Used to be that the list of the latest FCC-issued amateur callsigns was posted here monthly (duplicate-posted from two sources, actually). The last one that I've seen was for the callsigns issued as of March 1. I miss the lists! Can those who were forwarding them along please resume?

Anyone know what was issued for call district 3 as of June 1?

--Rick
N3JGF

Date: 8 Jun 93 18:05:09 GMT
From: news-mail-gateway@ucsd.edu
Subject: WARNING: Potential Geomagnetic Storm Warning
To: info-hams@ucsd.edu

POTENTIAL MAJOR GEOMAGNETIC STORM WARNING

ISSUED: 17:30 UT, 08 JUNE

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

HIGH RISK PERIOD: 09 Jun - 10 Jun (UT days)

MODERATE RISK PERIOD: 09 Jun - 11 Jun

POTENTIAL LOW-MIDDLE LATITUDE STORM INTENSITY: MINOR - MAJOR

POTENTIAL HIGH LATITUDE STORM INTENSITY: MAJOR

POTENTIAL DURATION OF GEOMAGNETIC STORM: 24 HOURS

POTENTIAL PEAK LOW-MIDDLE LATITUDE K-INDEX VALUES: 6

POTENTIAL PEAK HIGH LATITUDE K-INDEX VALUES: 7

EXPECTED DOMINATING LOW-MIDDLE LATITUDE K-INDEX: 5 - 6

EXPECTED DOMINATING HIGH LATITUDE K-INDEX: 6

POTENTIAL FOR LOW LATITUDE HF DEGRADATION: MODERATE

POTENTIAL SEVERITY OF HF DEGRADATION: MINOR

EXPECTED HF PROPAGATION CONDITIONS: GOOD - OCCASIONALLY FAIR

POTENTIAL FOR MIDDLE LATITUDE HF DEGRADATION: HIGH

POTENTIAL SEVERITY OF HF DEGRADATION: MINOR - MAJOR

EXPECTED HF PROPAGATION CONDITIONS: FAIR - OCCASIONALLY POOR

POTENTIAL FOR HIGH LATITUDE HF DEGRADATION: HIGH

POTENTIAL SEVERITY OF HF DEGRADATION: MINOR - MAJOR

EXPECTED HF PROPAGATION CONDITIONS: POOR TO OCCASIONALLY USELESS

POTENTIAL RISK FOR GEOSYNCHRONOUS MAGNETOPAUSE CROSSINGS: 55% PROBABLE

SUSPECTED SOURCE OF OBSERVED/EXPECTED ACTIVITY:

Major M5.4/2B tenflare with major Types II and IV sweeps on 07 June.

EST. POTENTIAL GEOMAGNETIC IMPACT

SEVERE STORM : 10 %

MAJOR STORM : 40 %

MINOR STORM : 30 %

ACTIVE OR LESS : 20 %

EST. POTENTIAL IONOSPHERIC IMPACT

LOW LATITUDES : MINOR

MIDDLE LATITUDES : MINOR - MAJOR

HIGH LATITUDES : MINOR - MAJOR

POLAR LATITUDES : MINOR - MAJOR

PROBABLE SI ASSOCIATION : 75 %

ESTIMATED GLOBAL IMPACT: MINOR-MAJOR

ESTIMATED FORECAST PEAK PLANETARY 24-HOUR A-INDEX DURING STORM: 40

** End of Warning **

Date: Tue, 08 Jun 1993 14:57:45 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!neoucom.edu!
wtm@network.UCSD.EDU
To: info-hams@ucsd.edu

References <77u1t*L4v@lhaven.UUmh.Ab.Ca>, <m16ugfINN5g8@exodus.Eng.Sun.COM>, <4034@eram.esi.COM.AU>

Subject : Re: ft530 rubber resistor: tuned low?

Personal experince has shown the stock flexible antenna that is packaged with the US version FT-530 is a pretty poor antenna. Receiving isn't to bad becuase the radio has a relatively sensitive front end, even after the factory installed warranty repair to reduce spurious pick-up. Transmitting is the problem. The supplied antenna seems to radiate most favorably in the direction in which the tip of the antenna points. For conventional use, that is up toward the sky where you don't need it. You can improve performance a bit by holding the HT almost horizontal and aiming the antenna in the direction you wish to transmit. Granted, this could offer an advatange sometimes, but is not terribly convenient for operation of the HT and isn't useful for operational situations where you want to use an HT -- i.e. trying to contact your associates at a public event or trying to find you buddy wandering about a hamfest flea market.

I didn't have an FT-470 handy to try its antenna on the 530, but did try an Icom FA-1443B 2/.7m antenna. The improvement in receive performance and transmit capability under average conditions is dramatic. Also tried the Larsen dual band of similar design, but the Icom antenna was much better.

--
Bill Mayhew NEOUCOM Computer Services Department
Rootstown, OH 44272-9995 USA phone: 216-325-2511
wtm@uhura.neoucom.edu amateur radio 146.58: N8WED/AA

End of Info-Hams Digest V93 #698
